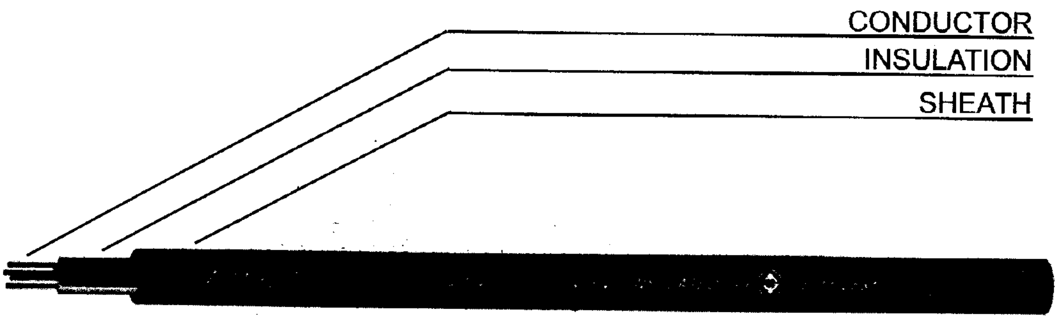
COPPER CONDUCTOR CABLES

Flexible Wires And Cables

750 V 70 °C PVC INSULATED AND SHEATHED FLEXIBLE CABLE



CABLE STRUCTURE

NUMBER OF CORE	:	Up to 4 cores
CONDUCTOR	:	Flexible annealed copper wires Sizes. 0.5 mm^2 up to 35 mm^2 for single core 0.5 mm^2 up to 35 mm^2 for multi core
INSULATION	:	PVC Colour : Single core –Black 2 cores – Light gray and Black 3 cores – Light gray, Black and Red 4 cores – Light gray, Black, Red and Blue
SHEATH	:	PVC Colour : Black
CLASSIFICATION	:	Maximum conductor temperature 70°C Circuit voltage not exceeding 750 volts
TESTING VOLTAGE	:	2,500 Volts
REFERENCE	:	TIS 11-2531, Table 9

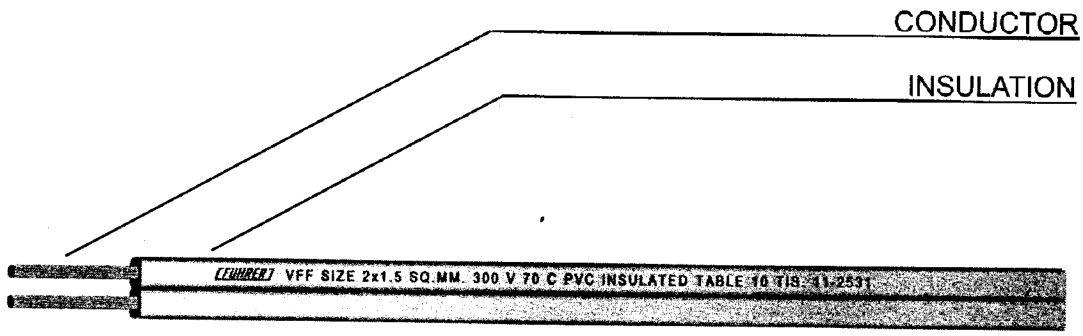
TIS 11-2531
Table 9

VCT

Number of core	Nominal cross sectional area (mm^2)	Number and diameter of wire (No./mm)	Insulation thickness (mm)	Sheath thickness (mm)	Max. overall diameter (mm)	Minimum insulation resistance at 70°C (MΩ-Km)	Maximum continuous current rating in free air (Ampere)	Cable weight (approx.) (Kg/Km)	Standard length (m)
	0.5	16/0.20	0.8	1.0	5.4	0.0160	10	28	100/C
	0.75	24/0.20	0.8	1.0	5.6	0.0140	13	32	100/C
	1	32/0.25	0.8	1.2	6.2	0.0127	15	40	100/C
	1.5	30/0.25	0.8	1.2	6.6	0.0111	19	47	100/C
	2.5	50/0.25	0.8	1.2	7.4	0.0092	27	60	100/C
1	4	56/0.30	0.9	1.4	8.6	0.0084	36	85	100/C
	6	84/0.30	0.9	1.4	9.4	0.0071	46	120	100/C
	10	80/0.40	1.1	1.8	12.0	0.0068	67	200	100/C
	16	126/0.40	1.1	1.8	13.5	0.0050	88	270	100/C
	25	196/0.40	1.3	2.2	16.0	0.0048	116	400	100/C
	35	280/0.40	1.3	2.2	17.5	0.0041	145	550	500/D
	0.5	16 / 0.20	0.8	1.2	8.8	0.0160	9	75	100/C
	0.75	24 / 0.20	0.8	1.2	9.2	0.0140	12	85	100/C
	1	32/ 0.25	0.8	1.2	9.6	0.0127	14	95	100/C
	1.5	30/ 0.25	0.8	1.4	11.0	0.0111	18	120	100/C
	2.5	50/ 0.25	0.8	1.4	12.5	0.0092	24	160	100/C
2	4	56/ 0.30	0.9	1.6	14.5	0.0084	33	230	100/C
	6	84/ 0.30	0.9	1.6	16.0	0.0071	42	300	100/C
	10	80/ 0.40	1.1	1.8	20.0	0.0068	60	500	500/D
	16	126/ 0.40	1.1	2.2	23.0	0.0050	80	700	500/D
	25	196 /0.40	1.3	2.4	27.5	0.0048	104	1,000	500/D
	35	280/ 0.40	1.3	2.6	31.0	0.0041	130	1,400	500/D
	0.5	16 / 0.20	0.8	1.2	7.8	0.0146	7	65	500/D
	0.75	24 / 0.20	0.8	1.2	8.6	0.0115	10	90	500/D
	1	32/ 0.25	0.8	1.4	9.0	0.0110	10	100	500/D
	1.5	30/ 0.25	0.8	1.4	10.0	0.0100	13	130	500/D
	2.5	50/ 0.25	0.8	1.4	10.5	0.0094	13	140	500/D
3	4	56/ 0.30	0.9	1.6	11.5	0.0092	18	190	500/D
	6	84/ 0.30	0.9	1.8	12.5	0.0084	18	200	500/D
	10	80/ 0.40	1.1	2.0	13.5	0.0086	25	280	500/D
	16	126/ 0.40	1.1	2.4	14.0	0.0078	25	300	500/D
	25	196 /0.40	1.3	2.6	15.5	0.0066	33	400	500/D
	35	280/ 0.40	1.3	2.8	19.0	0.0059	45	650	500/D
	0.5	16 / 0.20	0.8	0.9	7.8	0.0146	7	65	500/D
	0.75	24 / 0.20	0.8	0.9	8.6	0.0115	10	90	500/D
	1	32/ 0.25	0.8	0.9	9.0	0.0110	10	100	500/D
	1.5	30/ 0.25	0.8	1.2	10.0	0.0100	13	130	500/D
	2.5	50/ 0.25	0.8	1.2	10.5	0.0094	13	140	500/D
4	4	56/ 0.30	0.9	1.2	11.5	0.0092	18	190	500/D
	6	84/ 0.30	0.9	1.2	12.5	0.0084	18	200	500/D
	10	80/ 0.40	1.1	1.2	13.5	0.0086	25	280	500/D
	16	126/ 0.40	1.1	1.2	14.0	0.0078	25	300	500/D
	25	196 /0.40	1.3	1.2	15.5	0.0066	33	400	500/D
	35	280/ 0.40	1.3	1.4	19.0	0.0059	45	650	500/D

C: Packing in coil.
D: Packing in drum.

300 V 70 °C PVC INSULATED FLAT TYPE, FLEXIBLE CONDUCTOR



CABLE STRUCTURE

NUMBER OF CORE	:	2 conductors
CONDUCTOR	:	Flexible annealed copper wire, Sizes. 0.5 mm^2 up to 2.5 mm^2
INSULATION	:	PVC Colour : Any color with one different color tracer on lateral side of wire, or color thread at one of conductors
CLASSIFICATION	:	Maximum conductor temperature 70°C Circuit voltage not exceeding 300 volts
TESTING VOLTAGE	:	2,000 Volts
REFERENCE	:	TIS 11-2531, Table 10

VFF

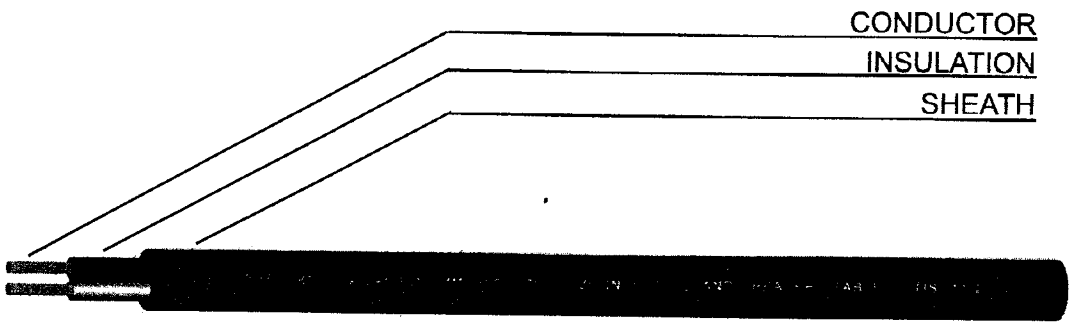
Number of core	Nominal cross Sectional area (mm²)	Number and diameter of wire (No/mm)	Insulation thickness (mm)	Overall diameter (mm)		Minimum insulation resistance at 70°C (MΩ-Km)	Maximum continuous current rating in free air (Ampere)	Cable weight (approx.) (Kg/Km)	Standard length (m)
				Lower limit	Upper limit				
2	0.5	16/0.20	0.8	2.4x4.9	3.2x6.2	0.0160	8	23	100/C
	0.5	28/0.15	0.8	2.4x4.8	3.2x6.2	0.0160	8	23	100/C
	0.75	24/0.20	0.8	2.6x5.2	3.4x6.6	0.0140	10	29	100/C
	0.75	42/0.15	0.8	2.6x5.2	3.4x6.6	0.0140	10	29	100/C
	1	32/0.20	0.8	2.8x5.6	3.6x7.0	0.0127	12	35	100/C
	1.5	30/0.25	0.8	3.0x6.0	3.9x7.6	0.0111	15	46	100/C
	2.5	50/0.25	0.8	3.5x7.0	4.8x9.4	0.0092	21	68	100/C

C: Packing in coil.

VKF

TIS 11-2531
Table 17

300 V 70 °C PVC INSULATED AND SHEATHED FLAT TYPE, FLEXIBLE CONDUCTOR



CABLE STRUCTURE

NUMBER OF CORE	:	2 cores
CONDUCTOR	:	Flexible annealed copper wires Sizes. 0.5 mm^2 up to 2.5 mm^2
INSULATION	:	PVC Colour : Light gray, Black
SHEATH	:	PVC Colour : Black or White
CLASSIFICATION	:	Maximum conductor temperature 70°C Circuit voltage not exceeding 300 volts
TESTING VOLTAGE	:	2,000 Volts
REFERENCE	:	TIS 11-2531, Table 17

TIS 11-2531
Table 17

VKF

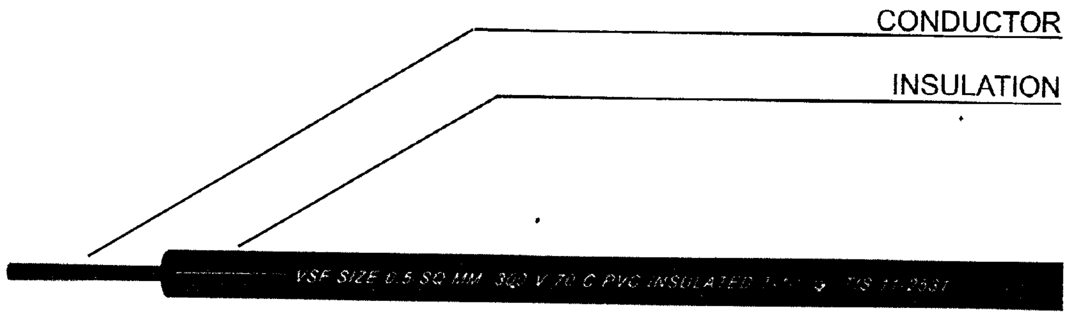
Number of core	Nominal cross sectional area (mm2)	Number and diameter of wire (No/mm)	Insulation thickness (mm)	Sheath Thickness (mm)	Overall diameter (mm)		Minimum insulation resistance at 70°C (MΩ-Km)	Maximum continuous current rating in free air (Ampere)	Cable weight (approx.) (Kg/Km)	Standard Length (m)
					Lower limit	Upper limit				
2	0.5	16/0.20	0.6	0.9	3.8x5.8	4.7x7.2	0.0132	8	38	100/C
	0.5	28/0.15	0.6	0.9	3.8x5.8	4.7x7.2	0.0133	8	38	100/C
	1	32/0.20	0.6	0.9	4.1x6.6	5.2x8.0	0.0104	11	50	100/C
	1.5	30/0.25	0.6	1.2	5.0x7.6	6.2x9.4	0.0090	15	75	100/C
	2.5	50/0.25	0.7	1.2	5.6x9.0	7.2x11.5	0.0083	20	110	100/C

C: Packing in coil.

VSF

TIS 11-2531
Table 10

300 V 70 °C PVC INSULATED FLEXIBLE CONDUCTOR, SINGLE CORE



CABLE STRUCTURE

CONDUCTOR	:	Flexible stranded annealed copper wire, Sizes. 0.5 mm^2 up to 2.5 mm^2
INSULATION	:	PVC- Any color
CLASSIFICATION	:	Maximum conductor temperature 70°C Circuit voltage not exceeding 300 volts
TESTING VOLTAGE	:	2,000 Volts
REFERENCE	:	TIS 11-2531, Table 10

VSF

Number of core	Nominal Cross Sectional area (mm^2)	Number and diameter of wire (No./mm)	Insulation Thickness (mm)	Max. Overall diameter (mm)	Minimum insulation resistance at 70°C (MΩ-Km)	Maximum continuous current rating in free air (Ampere)	Cable weight (approx.) (Kg/Km)	Standard length (m)
1	0.5	16/0.20	0.8	3.2	0.0160	9	12	100/C
	0.5	28/0.15	0.8	3.2	0.0160	9	11	100/C
	0.75	24/0.20	0.8	3.4	0.0140	11	15	100/C
	0.75	42/0.15	0.8	3.4	0.0140	11	14	100/C
	1	32/0.20	0.8	3.6	0.0127	14	17	100/C
	1.5	30/0.25	0.8	3.9	0.0111	18	22	100/C
	2.5	50/0.25	0.8	4.8	0.0092	24	33	100/C

C: Packing in coil.